

1849 to 1898  
July 10-93 to Aug 23<sup>rd</sup> 1894  
yr.

ORIGINAL LOG BOOK OF THE "EISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS :

Numbers 1849 to 1898

## RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. 1849

Date, July 10<sup>th</sup> 1893

Time of day, 10.10 A.M.; of tide, flood

Locality, 2 1/2 miles S of Norman's Land

Exact position, Gay Head Lat 41° 40' N Long 70° 10' W

Cuttighawk Ledge Lat 41° 40' N Long 70° 14' W 14 1/2 miles

Depth, 15 fms

Nature of bottom, Hard &amp;

Dredging instrument used, Beam Trawl

Direction of drift, NNE; distance, 1/4 mile

Temperature of air, 67 therm. No.,

" of surface water, 64 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 20.24.2 temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.09

State of sky, clear

Direction of wind, North; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, 26576 Str Fish Hawk

Service to which attached, 26576

Name and rank of commanding officer, Robert Platt

Lieut 26576

Name and position of observer,

Johnnighton  
Materdn

NOTES RELATING TO STATION NO. 1849

Hake Flounders  
Whiting's Sand Dollars  
Skate

**RECORD OF DREDGING,**  
**TEMPERATURE AND DENSITY.**

1850

Station No.

Date, July 10. 1893

Time of day, 10.34 A.M.; of tide, flood

Locality, 4½ miles S of Norman's Land

Exact position, Gay Head Ledge N 4° 4' E 10½ miles

Lentghwise S 40° E 8 W 16 miles

Depth, 17 fms

Nature of bottom, Hard clay

Dredging instrument used, Beam Trawl

Direction of drift, N E ; distance, ¼ mile

Temperature of air, 68

therm. No.,

" of surface water, 64

"

" at depth of      fathoms,

"

" at bottom,

"

Density at surface, 1.0242

temp.,

" at depth of      fathoms,

"

" at bottom,

"

Number of salinometer.

Barometer reading, 30.09

State of sky, clear

Direction of wind, SWW ; force, 2

Rain,

Direction of surface current,      ; force,

" of bottom      "      ; force,

Name of vessel, U.S. Fish Hawk

26876

Service to which attached,

Name and rank of commanding officer, Robert Platt

Captain

Name and position of observer,

John M. Mather

NOTES RELATING TO STATION NO. 857

Hake Skates Flounders  
Herring Crabs Sand dollars

**RECORD OF DREDGING,**  
**TEMPERATURE AND DENSITY.**

Station No. 1851

Date, July 10<sup>th</sup> 1893

Time of day, 10.58 AM; of tide, Flood

Locality, ~~4 miles~~ 88W of Monroe Land

Exact position, Gay Head St Nort 7° 8' 10" 4 miles

Cattyhawk Ledge N 3/4 W 15 miles

Depth, 15 fms 3 ft

Nature of bottom, Hard

Dredging instrument used, Beam Trawl

Direction of drift, NE; distance,  $\frac{1}{4}$  mile

Temperature of air, 67

therm. No.,

" of surface water, 64

" at depth of      fathoms,

" at bottom,      f

Density at surface, 1.02412

temp.,

" at depth of      fathoms,

"

" at bottom,

"

Number of salinometer,

Barometer reading, 30.19

State of sky, Clear

Direction of wind, North; force, 1

Rain,

Direction of surface current,      ; force,

" of bottom      " ; force,

Name of vessel, U.S. Fish Hawk

Service to which attached, U.S.A.

Name and rank of commanding officer, Robert Platt

Lieut.-Commander

Name and position of observer,

Franklin  
Thompson

NOTES RELATING TO STATION NO. 1851

Sea Anemone Flounders Dake  
Sand dollar star fish Hermit  
Crabs skate

**RECORD OF DREDGING,**  
**TEMPERATURE AND DENSITY.**

Station No. 1852

Date, July 10 1893

Time of day, 11.24 a.m.; of tide, Flood

Locality, 4 miles

Exact position, Gay Head 50 N. & 8 1/2 E. 10 miles  
Tuttle's Harbor 50 N 4 1/2 W 14 1/2 miles

Depth, 13 fms 3 do

Nature of bottom, Hard

Dredging instrument used, Beam Trawl

Direction of drift, NE; distance, 10 miles

Temperature of air, 67 therm. No.,

" of surface water, 64

" at depth of      fathoms,

" at bottom,

Density at surface, 1.0242 temp.,

" at depth of      fathoms,

" at bottom,

Number of salinometer,

Barometer reading, 30.09

State of sky, clear

Direction of wind, North; force, 2

Rain,

Direction of surface current,      ; force,

" of bottom      "      ; force,

Name of vessel, U.S.A.T. Fish Hawk

Service to which attached, U.S.A.T.

Name and rank of commanding officer, Robert Platt

Lieut.-Commander

Name and position of observer,

Henry H. Matthews

NOTES RELATING TO STATION NO. 1852

Skate Hake Flounders  
Sand dollars worms crabs

**RECORD OF DREDGING,**  
**TEMPERATURE AND DENSITY.**

Station No. 1853

Date, July 10 1893

Time of day, 11:00 A.M.; of tide, Flood

Locality, Block Island Sound

Exact position, Gay Head Ledge at 8 $\frac{1}{4}$  to 5 $\frac{3}{8}$  miles  
Long Island Sound 3 $\frac{1}{2}$  miles

Depth, 15 fms

Nature of bottom, Hard

Dredging instrument used, Beam Trawl

Direction of drift, NNE; distance,  $\frac{1}{4}$  mile

Temperature of air, 67 therm. No.,

" of surface water, 64 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0244 temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.09

State of sky, clear

Direction of wind, WNW; force, 1

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. Fish Hawk

Service to which attached, U.S.A.

Name and rank of commanding officer, Robert Platt

Lieut. 26 S.W.

Name and position of observer,

J. M. Johnson  
Master

NOTES RELATING TO STATION NO. 1853

Sculpin Hake Whiting Haddock  
Starfish Cunners

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1854

Date, July 18 1893

Time of day, 1.40 P.M.; of tide, Flood

Locality, Cape Field Ground

Exact position, Geographic Lat 38° 57' N  
Longitude 47° 57' W 7 1/4 miles  
Southwest of Cape Field

Depth, 17 fathoms

Nature of bottom, Muddy

Dredging instrument used, R. D. T. 10 ft.

Direction of drift, N E; distance, 1/2 mile

Temperature of air, 67 therm. No.,

" of surface water, 64 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.024.2 temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.09

State of sky, Clear

Direction of wind, N E; force, 1

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.C.S. Fish Hawk

Service to which attached, U.S.C.S.

Name and rank of commanding officer, Robert Pease

R. Pease Jr.

Name and position of observer,

John C. Johnson  
Master

NOTES RELATING TO STATION NO. 1852

Shoal Fish Flounders Nake  
Horned Crabs

## RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. 1855

Date, July 10<sup>th</sup> 1893

Time of day, 2:45 P.M.; of tide, High

Locality, Block Island Sound

Exact position, Between Ledge Ext 1/4 N 3 1/2 miles  
Southwest of New York 5 1/2 "

Depth, 14 fms

Nature of bottom, Hard

Dredging instrument used, Beam Trawl

Direction of drift, North; distance, 1/4 mile

Temperature of air, 67 therm. No.,

" of surface water, 65 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0242 temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.09

State of sky, clear

Direction of wind, N.W.; force, 2

Rain,

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, U.S. Fish Hawk

Service to which attached, U.S.A.

Name and rank of commanding officer, Robert Platt

Rear-Adm.

Name and position of observer,

Melville M. Tuttle

NOTES RELATING TO STATION NO. 1900

Top of Fish Mountain State  
Game Reserve 10 miles East  
of Winkler South Dak.

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1856

Date, July 10, 1893

Time of day 2:56 P.M. of tide, flood

Locality, Vineyard Sound

Exact position, Bayhead Shoals 2 1/8 miles  
out from shore at N.W. 1/4 of 5 1/2 "

Depth, 14 fms

Nature of bottom, Hard

Dredging instrument used, Beam trawl

Direction of drift, N X E ; distance, 1/4 mile

Temperature of air, 66 therm. No.,

" of surface water, 64 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.024 temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.04

State of sky, Clear

Direction of wind, N.W. ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Yacht Star Fish Hawk

Service to which attached, U.S.A.

Name and rank of commanding officer, Robert Scott  
Capt. H. S. W.

Name and position of observer,

John M. Johnson  
Officer in Charge

NOTES RELATING TO STATION NO. 1856

Shoreline sand  
green kelp  
isomit crabs scarce

RECORD OF DREDGING,  
TEMPERATURE AND DENSITY.

Station No. 1857

Date. July 10 1893

Time of day. 3:26 P.M. : of tide. Flood

Locality, Vineyard Sound

Exact position, Between 15 to 30 miles  
South of Block Island 3½ miles  
Southwest of New London

Depth, 13 fms

Nature of bottom, Hard

Dredging instrument used, Beam Trawl

Direction of drift, NNE : distance, ¼ mile

Temperature of air, 66 therm. No.,

" of surface water, 66 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.024 temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.09

State of sky, Clear

Direction of wind, NNE ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. Fish Hawk

Service to which attached, U.S. Fish Hawk

Name and rank of commanding officer, Robert Platt  
Lieut.-U.S.A.

Name and position of observer,

J. M. Langford  
Metaphysician

NOTES RELATING TO STATION NO. 1867

Wedge-shaped sand bottom  
Skate flounder Nervous  
4 rock crabs

## RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. 1858

Date, July 10, 1893

Time of day, 3.50 P.M.; of tide, Flood

Locality, Vicksburg Channel

Exact position, Between 5 to 6 miles  
Southwest of Natchez 5 1/4 or 5 5/8 miles

Depth, 14 fms 2 fms

Nature of bottom, Hard

Dredging instrument used, Beam Trawl

Direction of drift, N X E; distance, 1/4 mile

Temperature of air, 66 therm. No.,

" of surface water, 64 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.024 temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.19

State of sky, Clear

Direction of wind, WSW; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. S. Fish Hawk

Service to which attached, U.S. C. S.

Name and rank of commanding officer, Robert R. Hart  
Lieut. 26 S. N.

Name and position of observer,

John L. M. Hart

NOTES RELATING TO STATION NO. 158.

Longnose Skate Nake  
Whiting Pecten Sea urchin  
Glowworm, Hermit Crab  
Sand dollars Cholla

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No.

1859

Date,

July 12' 1893

Time of day,

9:15 M. : of tide,

Locality,

Buzzard Bay

Exact position,

At sea S 40° E 3° 45' 1/2 miles

And Made 40° E 4° 30' N 8 1/8 miles

Depth,

8 fms

Nature of bottom,

Sticky

Dredging instrument used,

Benton Trawl

Direction of drift,

N W : distance, 1/4 mile

Temperature of air,

68

therm. No.,

"

of surface water,

65

"

at depth of fathoms,

..

"

at bottom,

..

Density at surface,

1023.4

temp.,

"

at depth of fathoms,

..

"

at bottom,

..

Number of salinometer,

Barometer reading, 30.18

State of sky, cloudy

Direction of wind, S W ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.A.T. Fish Hawk

Service to which attached, U.S.F.C.

Name and rank of commanding officer, Robert Platt

Captain - No. 836

Name and position of observer,

John H. Bishop  
Master's Mate

NOTES RELATING TO STATION NO. 1859

Horn shell Spider Crabs  
Rock crabs Black mud

RECORD OF DREDGING,  
TEMPERATURE AND DENSITY.

Station No. 1860

Date, July 12<sup>th</sup> 1893

Time of day, 9 A.M. ; of tide, Flood

Locality, Buzzard Bay

Exact position, Notsuka Wharf E $\frac{1}{2}$ S $\frac{1}{2}$ E 5 $\frac{1}{2}$  miles

Bear. SSW 150° 45' E 7 $\frac{1}{2}$  miles

Depth, 8 fms 30'

Nature of bottom, sticky

Dredging instrument used, Beam Trawl

Direction of drift, SSW ; distance,  $\frac{1}{4}$  mile

Temperature of air, 69 therm. No.,

" of surface water, 65 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1028.2 temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.18

State of sky, cloudy

Direction of wind, S W ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. Fish Hawk

Service to which attached, U.S. Fish Hawk

Name and rank of commanding officer, Robert Platt  
Lieut. U.S.N.

Name and position of observer,

John H. Johnson  
Master Mariner

NOTES RELATING TO STATION NO. 1860

Shell Grass worms  
black mud.

## RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. 1861

Date, July 29, 1893

Time of day, 2.30 PM; of tide,  $\frac{1}{2}$  flood

Locality, Eastport Harbor Me

Exact position, From Head 3 m. SSW  $\frac{1}{16}$  milesCable recovered 3 m. SSW  $\frac{1}{4}$  miles

Depth, 18 fathoms

Nature of bottom, hard

Dredging instrument used, Beam Trawl

Direction of drift, ; distance,

Temperature of air, 63 therm. No.,

" of surface water, 51

" at depth of 18 fathoms, 57

" at bottom, 51

Density at surface, 1025.6 temp., 51°

" at depth of fathoms,

" at bottom, 1025.4 " 51°

Number of salinometer,

Barometer reading, 29.94 "

State of sky, cloudy rainy

Direction of wind, SSW : force, 4

Rain,

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, U.S. Fr. Fish Hawk

Service to which attached, U.S. F. H.

Name and rank of commanding officer, Robert Platt

Point 26 S.W.

Name and position of observer,

John M. Johnson  
Master

NOTES RELATING TO STATION NO. 1861.

1 star fish 2 skulpins sponge  
Truncate (Bulbinae).  
Holothurians, (Reptacinae)  
Star fish (Asteroidea + Cribellaria  
etc.) 2 Sculpins and  
one Ophidion brachynotus  
in Minge. Flounders =  
(P. americanus)

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No.

1862

Date, July 29, 1893

Time of day, 3 P.M. : of tide,  $\frac{1}{2}$  flood

Locality, Eastport Harbor

Exact position, From Head SSW  $\frac{1}{4}$  W  $\frac{1}{8}$  milesCloses narrow to SSW  $2\frac{1}{4}$  miles

Depth, 30 fathoms

Nature of bottom, hard

Dredging instrument used, Beam Trawl

Direction of drift, ; distance,

Temperature of air, 63 therm. No.,

" of surface water, 58

" at depth of fathoms,

" at bottom,

Density at surface, 1.025 temp., 50

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, 29.94

State of sky, Cloudy &amp; hazy

Direction of wind, SSW ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. Fish Hawk

Service to which attached, U.S. Fish

Name and rank of commanding officer, Capt. Platt

Capt. Wm. H. Platt

Name and position of observer, C. H. Compton  
Compt. Inf.

NOTES RELATING TO STATION NO. 1763.

Sponges, sea urchin & shelpin  
mussel shells, several small  
brittle star fish, Barnacles,  
shrimps, Truncates, Annelids,  
Lagonid

RECORD OF DREDGING,  
TEMPERATURE AND DENSITY.

Station No. 1863

Date, August 9, 1893

Time of day, 91 52<sup>45</sup> of tide, slack

Locality, St. Loring River, Maine

Exact position, 50° 45' N. lat., 68° 45' W. long.

Station, St. Ext. N 2 miles

Depth, 13 fathoms

Nature of bottom, soft

Dredging instrument used, clam trawl

Direction of drift, ESE; distance, 1/4 mile

Temperature of air, 70 therm. No.,

" of surface water, 55°

" at depth of fathoms,

" at bottom,

Density at surface, 1024.4 temp.,

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, 30.10

State of sky, clear

Direction of wind, South; force, 2

Rain,

Direction of surface current, : force,

" " of bottom " : force,

Name of vessel, U.S.A.T. Fish Hawk

Service to which attached, U.S.F.C.

Name and rank of commanding officer, Robert Platt

Captain U.S.N.

Name and position of observer,

J. W. M. Jackson

Mate u.s.n.

NOTES RELATING TO STATION NO. 1163

Many fish star fish mud  
One large basket starfish

## RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. 1864

Date, Sept 23<sup>d</sup>, 1893

Time of day, 10:36 A.M. ; of tide,

Locality Mouth of Chesapeake Bay

Exact position, Bramble Shoals N.W. 11 miles

Cape Henry L.L. 5° 22' 38" 1/2 miles

Depth, 11. 3

Nature of bottom, Sand

Dredging instrument used, Beam Trawl

Direction of drift, E. N. S. ; distance, 1/2 mile

Temperature of air, 79 therm. No.,

" of surface water, 75 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.014 temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 29.97

State of sky, Partly cloudy

Direction of wind, Eastward ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. Fish Hawk

Service to which attached, U.S. F.L.

Name and rank of commanding officer, Robert H. Ball

Lloyd Habn

Name and position of observer,

McClintock  
waterman

NOTES RELATING TO STATION NO. 116+

Squid shot numerous times.  
Cone shell 14 species. Star fish  
Crabs. Shells eggs. Spider  
crabs King crab.

RECORD OF DREDGING,  
TEMPERATURE AND DENSITY.

Station No. 1865

Date, September 15, 1873

Time of day, 10.5 A.M.; of tide, High

Locality, Mouth Cobs Bay

Exact position, Thimble Shoals or  $12\frac{1}{2}$  miles  
Cape Henry Lighthouse  $5\frac{1}{4}$  miles

Depth, 10. 2

Nature of bottom, Hard

Dredging instrument used, Barn Trawl

Direction of drift, E. S. . . . distance,  $\frac{1}{4}$  mile

Temperature of air, 70 therm. No.,

" of surface water, 75 ..

" at depth of fathoms, ..

" at bottom, ..

Density at surface, 1.023.6 temp.,

" at depth of fathoms, ..

" at bottom, ..

Number of salinometer,

Barometer reading, 29.86

State of sky, Clear

Direction of wind, N. W. ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. Fish Hawk

Service to which attached, U.S.C.

Name and rank of commanding officer, Wm. M. M.

Lieut. C. M.

Name and position of observer,

Johnston  
Matherne

NOTES RELATING TO STATION NO. 1865

1 *Sentella* sand starfish. Four  
orange spot. short minnow  
crabs. Shat eggs. Hg Chokers  
shrimp

RECORD OF DREDGING,  
TEMPERATURE AND DENSITY.

Station No. 1866

Date, September 23<sup>rd</sup> 1893

Time of day, 11:55 A.M. : of tide, Low

Locality,

Exact position, Thimble St. N. 44° 40' 30" W. 13° 50' E.  
Cape Henry L. H. S. N. 38° 45' W. 13° 45' E. 1 1/4 miles

Depth, 10

Nature of bottom, Sand

Dredging instrument used, Tamm. Hawk

Direction of drift, East ; distance, 1/4 mile

Temperature of air, 81 therm. No.,

" of surface water, 7.5 "

" at depth of fathoms, "

" at bottom, " "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 16, 13, 2

Barometer reading, 29.96

State of sky, Clear

Direction of wind, East ; force, 1

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. Fish Hawk

Service to which attached, U.S.F.C.

Name and rank of commanding officer, Robert Peale

Brevet Lt. Jr. C.

Name and position of observer,

John M. Palmer  
M.A. 1000

NOTES RELATING TO STATION NO. 1906

Squilla Shrimp Trout  
Croakers Grid Drifish  
Nug Croakers Shete eggs  
short minnow

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1867

Date, September 28 1893

Time of day, 11 A.M.; of tide, ebb

Locality, Mouth Leba Bay

Exact position, Thimble Shoals N.W. 14 5/8 miles

Cape Henry S.H. &amp; 7/8 S 2 3/8 miles

Depth, 10 fms

Nature of bottom, Hard

Dredging instrument used, Beam Trawl

Direction of drift, E. S. ; distance, 1/4 mile

Temperature of air, 79 therm. No.,

" of surface water, 75.5 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.028 temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 29.96

State of sky, clear

Direction of wind, S E ; force, 1

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. Fish Hawk

Service to which attached, U.S. F.C.

Name and rank of commanding officer, Robert Platt  
Lieut.-Commander

Name and position of observer,

P. L. Whipple  
Master's M.

NOTES RELATING TO STATION NO. 1867

Dwarf Croakers Hop chokers  
Shrimp whiting Young blue fish  
squid short banner  
Star fish dead fish  
Young green turtle

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 208

Date, September 23<sup>rd</sup> 1883

Time of day, 10 A.M.; of tide, low

Locality, Between Cape Henry and the Bay

Exact position, Middle Banks off from 15 miles  
Cape Henry to 10  $\frac{1}{4}$  to 8  $\frac{1}{2}$  miles

Depth, 3 fms

Nature of bottom, sand

Dredging instrument used, Dredge

Direction of drift, SSW by S; distance,  $\frac{1}{4}$  mile

Temperature of air, 79 therm. No.,

" of surface water, 75.5

" at depth of fathoms,

" at bottom,

Density at surface, 1015.6 temp.,

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, 29.95

State of sky, clear

Direction of wind, S E ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.G. Fish Hawk

Service to which attached, U.S.L.O.

Name and rank of commanding officer, Lt. R. W. Shantz

Lieut. W. S. Shantz

Name and position of observer,

John H. M. Mather

John H. Mather

NOTES RELATING TO STATION NO. 1868

A few broken trout  
Small minnows & snake  
Eggs in Boxes, hatch eggs

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1869

Date, September 25<sup>th</sup> 1893

Time of day, 11.40 : of tide,

Locality, Chesapeake Bay

Exact position, Chincoteague L. N. 40° 38' E. Lat 37° 38' 1/2 N.

Altitude 5140 fms 32° 48' S 178 miles

Depth, 21 fathoms

Nature of bottom, Shells &amp; coral

Dredging instrument used, Beam Trawl

Direction of drift, South ; distance, 1/4 mile

Temperature of air, 82 therm. No.,

" of surface water, 74 temp., 50.40

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.018. temp., 74

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 70.49

Barometer reading, 30.06

State of sky, Clear

Direction of wind, S W ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U. S. S. Fish Hawk

Service to which attached, U. S. N. C.

Name and rank of commanding officer, Robert M. Scott

Name and position of observer,

John H. White

NOTES RELATING TO STATION NO. 1869.

A quantity of Coral

Beams - Corals -

Gorgonia - Squid

Dodder Shell covered with  
coral, a few small Fishes  
and July Fish, yellow lamp  
sponge

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1878

Date, Sept 25 1893

Time of day, 12 noon; of tide,

Locality, Chesapeake Bay

Exact position, Georgetown on Exhibit 178 in

Old Kent Island S E 1/4 S 1/4 miles

Depth, 10 fathoms

Nature of bottom, soft mud &amp; shells

Dredging instrument used, Beam Trawl

Direction of drift, South ; distance, 1/4 mile

Temperature of air, 82 therm. No.,

" of surface water, 74

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.016 temp., 74

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7049

Barometer reading, 30.02

State of sky, Clear

Direction of wind, S W ; force, 8

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U. S. F. C. &amp; H. Fish Hawk

Service to which attached, U. S. F. C.

Name and rank of commanding officer, R. Platt

also Dr. J. G.

Name and position of observer, G. N. Gleason, M. A., Math. Asst.

NOTES RELATING TO STATION NO. 1870

about 3 bushel of yellow  
lump sponge & woodchop shells  
& coral. Oregonia. Crabs  
Stone covered with coral  
oyster & Hard Clam shells,  
Sea urchins & spider crabs.  
Trawl over two fathoms  
& some of material lost.

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No.

1871-

Date, Nov 19<sup>th</sup> 1893

Time of day, 11.45 A.M. of tide, Ebb

Locality, Chesapeake Bay

Exact position, Smith Point at West Point

<sup>3 1/4 miles</sup> Wicomico Ct Hs SW by W 7 miles

Depth, 7 fathoms and 2 ft

Nature of bottom, sand

Dredging instrument used, Beam Tread.

Direction of drift, S W ; distance, 1/2 mile

Temperature of air, 48 therm. No.,

" of surface water, 52

" at depth of fathoms,

" at bottom,

Density at surface, 1014.0 temp., 52

" at depth of fathoms,

" at bottom,

Number of salinometer.

Barometer reading, 30.08

State of sky, cloudy

Direction of wind, N W E ; force, 5

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U. S. S. Fish Hawk

Service to which attached, U. S. A.

Name and rank of commanding officer, R. P. Davis

C. M. Davis

Name and position of observer, C. H. Clemonson

Master's Mates

NOTES RELATING TO STATION NO. 1671

Trawl was towed & most of  
material lost, but recovered  
about 1/2 peck of coral sponge,  
a few crab & shrimp,

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1872

Date, Oct 19<sup>th</sup> 1893

Time of day, 12:05 P.M.; of tide, Ebb

Locality, Chesapeake Bay

Exact position, Smith's Pt. Choptank River N.W.

 $3\frac{1}{4}$  miles from mouth S.W. by W. 7 miles

Depth, 8 fathoms

Nature of bottom, hard

Dredging instrument used, Oyster dredge

Direction of drift, SW; distance, 1/8 mile

Temperature of air, 48 therm. No.,

" of surface water, 52

" at depth of fathoms,

" at bottom,

Density at surface, 1014.0 temp., 52

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, 30.08

State of sky, cloudy

Direction of wind, N.W. 6; force, 5

Rain,

Direction of surface current, " force,

" of bottom " " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S. Fish Commission

Name and rank of commanding officer, R. P. Bell

Chief before Command

Name and position of observer, A. C. Chapman

Chief before

NOTES RELATING TO STATION NO. 1872

Obtained one Oyster 1/2 peck  
of Coral Springs & several small  
stones. the largest weighing about  
8 lbs

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1873

Date, Apr. 19<sup>th</sup> 1893

Time of day, 13.20 P.M.; of tide, Ebb

Locality, Chesapeake Bay

Exact position, Smith's Pt &amp; C. N. W. 1/2 N &amp; W 1/8 W

2 miles W. of Wicomico St. W. S. W. 1/8 W 7 1/2 miles

Depth, 10 fathoms

Nature of bottom, Sticky

Dredging instrument used, Oyster dredge

Direction of drift, N. by W.; distance, 1/8 mile

Temperature of air, 48 therm. No.,

" of surface water, 52

" at depth of fathoms,

" at bottom,

Density at surface, 1014.0 temp., 52

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, 30.08

State of sky, cloudy

Direction of wind, N. by E.; force, 5

Rain,

Direction of surface current, S; force, 2

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S.A.C.

Name and rank of commanding officer, R. Platt

C. M. Yerf Comdg. C. H. Clemonson

Name and position of observer, C. H. Clemonson

NOTES RELATING TO STATION NO. 1873

Obtained 1/2 bushel coral  
Sponge & dead grass, also  
thin live Oysters with spots  
& a few dead Oyster shells

RECORD OF DREDGING,  
TEMPERATURE AND DENSITY.

Station No. 1874

Date, Dec 19<sup>th</sup> 1893

Time of day, 1:30 PM; of tide, ~~Flood~~

Locality: Chesapeake Bay

Exact position Smith St at 40 MRR 2 1/8 miles

Wicomico St the SW  $\frac{1}{2}$  or 7  $\frac{1}{16}$  miles

Depth, 15 fath.

Nature of bottom, *Sticky*

Dredging instrument used. Oyster dredge

Direction of drift, N ; distance,  $\frac{1}{8}$  mile

Temperature of air, 48 therm. No.,

" of surface water, 52

" at depth of fathoms,

" at bottom,

Density at surface, 1013.0

temp., 52

" at depth of fathoms,

"at bottom, .

### Number of salinometer

Barometer reading, 30.06

State of sky, *Cloudy*

Direct

Rain,

ection of surface current; . . . . . force

" of bottom " ; force

Name of vessel. *Viceroy*  
Service to which attached. *U.S. Navy*

Service to which attached; *b* *C. S. F.*

Name and rank of commanding officer.

Name and position of observer: *O. H. Clegg, Jr.*

*Mote 240*

NOTES RELATING TO STATION NO. 1874

Bridges come up face of  
black snail and little  
deer grass

RECORD OF DREDGING,  
TEMPERATURE AND DENSITY.

Station No. 1875

Date, March 19<sup>th</sup> 1894

Time of day, 11:50 A.M.; of tide, Ebb

Locality, Lynde's Bay

Exact position, Cape Henry St. 40° 6' S.E.

Humble Shoal N.W.

Depth, 4 fath and 1 ft.

Nature of bottom, hard - sticky

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, S.S.E. ; distance,  $\frac{1}{8}$  mile

Temperature of air, 79 therm. No.,

" of surface water, 52 "

" at depth of      fathoms,      "

" at bottom,      "

Density at surface, 1014.6 temp., 53

" at depth of      fathoms,      "

" at bottom,      "

Number of salinometer,

Barometer reading, 30.06

State of sky, Clear

Direction of wind, S.S.W. ; force, 3

Rain,

Direction of surface current,      ; force,

" of bottom      " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S.C.C.

Name and rank of commanding officer, R. P. Lee

C. S. Jr.

Name and position of observer, C. H. Cleveland  
Mata Lefn

NOTES RELATING TO STATION NO. 1875

a few crabs - 1 small Flounder  
about a quart of Shrimps, and  
a few deer sea shells  
a little sea grass - Gorgonia  
Bryozoa

RECORD OF DREDGING,  
TEMPERATURE AND DENSITY.

Station No. 1876

Date, March 19<sup>th</sup> 1892

Time of day, 12:05 P.M.; of tide, Ebb

Locality, Lynham Bay

Exact position, Cape Henry 34° 45' S.E.  
Thimble Shoal 21° N.W. & N.W.

Depth, 5 fath.

Nature of bottom, soft & sticky

Dredging instrument used, 7 ft. Beam Trawl

Direction of drift, N.G. ; distance, 1/8 mile

Temperature of air, 79 therm. No.,

" of surface water, 52

" at depth of fathoms,

" at bottom,

Density at surface, 1014.6 temp., 52

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, 30.06

State of sky, Clear

Direction of wind, S.S.W. ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S.C.

Name and rank of commanding officer, R. Platt

Lieut. A.F.

Name and position of observer, C. H. Cleveland  
Mata 26/3

NOTES RELATING TO STATION NO. 1876.

One young Hake about 6 inches  
long - 5 young Flounders  
2 Seabass - 3 smaller charr about  
2 1/2 inches in length  
Three kinds of Flounders

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1877

Date, March 28<sup>th</sup> 1894

Time of day, 11.08 A.M. of tide, Flood

Locality, Chesapeake Bay (mouth)

Exact position, Cape Henry Lighthouse bearing  
S 3 1/8 E (true) dist 1 1/2 miles

Depth, 11 fathoms

Nature of bottom, Sticky

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, N 1/2 W; distance, 1/8 mile

Temperature of air, 40 therm. No.,

" of surface water, 47 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1016.0 temp., 47

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.91

State of sky, Clear

Direction of wind, ESE; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U. S. Fish Commission

Name and rank of commanding officer, R. Platt

Lieut. C. G. Johnson

Name and position of observer, C. H. Goldsmith

Mate, C. G. Johnson

NOTES RELATING TO STATION NO. 1877 -

Obtained about one bushel of yellow-dump sponge - 3 Skates  
1 1/2 young Hake averaging  
about 6 inches in length.  
2 gts of Star fish (small size)  
a few spot fish - Shrimps  
a few dumps of Coral  
a few Horned Crabs - (Piper fish  
one) a few young sea Robins  
and sea bass  
1 diminution of Lander



## RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. 1898

Date, March 28<sup>th</sup> 1894

Time of day, 11.40 A.M. of tide, High

Locality, Obscurant Bay (mouth)

Exact position, Cape Henry Lighthouse  
5 1/2 (m) west 1 3/4 miles

Depth, 11 fathoms

Nature of bottom, Sticky

Dredging instrument used, 7 ft. beam trawl

Direction of drift, N.E. ; distance, 1/2 mile

Temperature of air, 40 therm. No.,

" of surface water, 47

" at depth of fathoms,

" at bottom,

Density at surface, 1016.0 temp., 47

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, 30.71

State of sky, Clear

Direction of wind, ESE ; force, 5

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S.C.

Name and rank of commanding officer, R. P. Lee

Lt. Jgn

Name and position of observer, C. H. Gould

Mata Rejn

NOTES RELATING TO STATION NO. 1675

Obtained about a basketful of yellow lump sponge. 3 Skates  
4 young slate scalloping eels  
& another of length 2 ft.  
1 spot fish - took a pot of  
small star fish - 2 Spider crabs  
and a few Hermit crabs

RECORD OF DREDGING,  
TEMPERATURE AND DENSITY.

Station No. 1879  
 Date, October 28<sup>th</sup> 1894  
 Time of day, 11.55 A.M.; of tide, Flood  
 Locality, Chesapeake Bay (mouth)  
 Exact position, Cape Henry Ld N. buoy  
5 1/2 fms. out 1 1/4 miles  
 Depth, 11 fathoms and 5 ft  
 Nature of bottom, Shells  
 Dredging instrument used, 7 ft Beam Trawl  
 Direction of drift, W 1/2 W; distance, 1/8 mile  
 Temperature of air, 46 therm. No.,  
 " of surface water, 47  
 " at depth of      fathoms,  
 " at bottom,  
 Density at surface, 1016.0 temp., 47  
 " at depth of      fathoms,  
 " at bottom,  
 Number of salinometer,  
 Barometer reading, 3071  
 State of sky, Clear  
 Direction of wind, ESE; force, 3  
 Rain,  
 Direction of surface current,      ; force,  
 " of bottom      " ; force,  
 Name of vessel, Seahawk  
 Service to which attached, U.S.A.C.  
 Name and rank of commanding officer, R. Platts  
O. S. Jr.  
 Name and position of observer, C. Cleveland  
Mate Engt.

NOTES RELATING TO STATION NO. 1879

Obtained 1/2 basket of yellow  
lump sponge. A number of Pipe  
fish - young Hake, young Grouper  
a few shrimp & star fish. also  
Hermit Crab - 1 Conch

✓

RECORD OF DREDGING,  
TEMPERATURE AND DENSITY.

Station No. 1880

Date, March 28<sup>th</sup> 1894

Time of day, 12 30 PM of tide, Flood

Locality, Chesapeake Bay

Exact position, Cape Henry 2 1/2 hours

$SE \times E \frac{1}{4} E$  (mug) dist 2 1/4 miles

Depth, 6 fathoms

Nature of bottom, Chalk

Dredging instrument used, 7 ft Bramwell

Direction of drift, N W : distance, 1/2 miles

Temperature of air, 46 therm. No.,

" of surface water, 46

" at depth of fathoms,

" at bottom,

Density at surface, 1015.0 temp., 46

" at depth of fathoms,

" at bottom,

Number of salinometer.

Barometer reading, 30.71

State of sky, Clear

Direction of wind, ESE; force, 3

Rain.

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U S T C

Name and rank of commanding officer, R Platt

St. L'evre Comdy

Name and position of observer, G. Cleveland  
Mate up

NOTES RELATING TO STATION NO. 55V

Obtained 3 Skates a few  
young Hake about 6 inches long.  
Shrimp, Hermit Crab, Sibor Sedge  
Piper fish

RECORD OF DREDGING,  
TEMPERATURE AND DENSITY.

Station No. 1881

Date, May 28-1894

Time of day, 12 50 PM of tide, Flood

Locality, Lynnhaven Bay

Exact position, Cape Henry Lt No bearing  
55° 5' 46" due S 1/2 miles

Depth, 4 fathoms or 3 feet

Nature of bottom, sand

Dredging instrument used, 7 ft beam trawl

Direction of drift, : distance.

Temperature of air, 47 therm. No.,

of surface water, 48

" at depth of fathoms,

" at bottom,

Density at surface, 1014.6 temp., 48

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, 30.68

State of sky, Clear

Direction of wind, ESE ; force, 4

Rain,

Direction of surface current, : force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S. Commission

Name and rank of commanding officer, R. Platt

Lieut U.S. Comdg

Name and position of observer, C. W. Ladd

Mate U.S.A.

NOTES RELATING TO STATION NO. 1881

Obtained - 2 crabs - & about 1  
quid sp. Shrimps - 6 small Hake  
a few silver sides - Star fish  
1 Diomedeater - Herring

RECORD OF DREDGING,  
TEMPERATURE AND DENSITY.

Station No. 1882

Date, April 24 - 1894

Time of day, 10:15 a.m. of tide,  $\frac{1}{2}$  flood

Locality, Vicinity French Shoal, Low-Cha B. Yen

Exact position, Backward Hts French Shoal Lat 17° 03'

French Shoal N to Old Peacock Is. 20° 00'

Depth, 6 - 1

Nature of bottom, Muddy

Dredging instrument used, Dredge

Direction of drift, ; distance,

Temperature of air, 52 therm. No.,

" of surface water,

" at depth of fathoms,

" at bottom,

Density at surface, temp.,

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading,

State of sky, Clear blue

Direction of wind, N. E.; force,

Rain,

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, Fish Hawk

Service to which attached, U.S. Commission

Name and rank of commanding officer, R. Pletsch

Luit. U.S.N. Commanding

Name and position of observer, W. G. Wilkeson

NOTES RELATING TO STATION NO. 1882

RECORD OF DREDGING,  
TEMPERATURE AND DENSITY.

Station No. 1883

Date, Apr. 21, 1902

Time of day, 10:45 A.M.; of tide, ~~High~~

Locality, Lower Chukchi Sea

Exact position, ~~30° 2' N. Lat. 166° 2' E. Long.~~ Thimble Shoal No. 21-53

~~Thimble Shoal No. 2000 E. Greenwich No. 27-52~~

Depth, 5 fms.

Nature of bottom, ~~Mud~~

Dredging instrument used, ~~Fowler~~

Direction of drift, ; distance,

Temperature of air, 55 therm. No.,

" of surface water,

" at depth of fathoms,

" at bottom,

Density at surface, temp.,

" at depth of fathoms,

" at bottom.

Number of salinometer.

Barometer reading,

State of sky,

Direction of wind, N.W. ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S.A.C.

Name and rank of commanding officer, Robt. Pace

Lieut. J. W. Conner

Name and position of observer, W. G. McWhorter

NOTES RELATING TO STATION NO. 1886

RECORD OF DREDGING,  
TEMPERATURE AND DENSITY.

Station No. 1684

Date, Aug 18 - 1894

Time of day, 2 PM ; of tide, High

Locality, Chiloe Bank

Exact position, E S E 1/8 degree from Lucy Hook

St. Ship distance 12 miles

Depth, 124 fathoms

Nature of bottom, gravel - cobbles

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 75 therm. No.,

" of surface water, 71 1/2

" at depth of fathoms,

" at bottom,

Density at surface, 1.023.0 temp., 71 1/2

" at depth of fathoms,

" at bottom,

Number of salinometer, 705.2

Barometer-reading, 30.02

State of sky, cloudy

Direction of wind, SSW ; force, 4

Rain,

Direction of surface current, ; force,

" of bottom " : force,

Name of vessel, Fish Hawk

Service to which attached, U.S.F.C.

Name and rank of commanding officer, Robt. Plot

Lieut. U.S.N. Comdg. Off. Cleaveland

Name and position of observer,

Mathew Lefr

NOTES RELATING TO STATION NO. 1884.

Obtained about a basket of material, consisting of gravel  
dead shells. Pebbles & stones  
small crabs - 2 live Pectens  
a few star fish & hermit crabs  
& Kite's Eggs.

## RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. 1885

Date, Aug 18<sup>th</sup> 1894

Time of day, 2.30 PM of tide,

Locality, Cholos Banks

Exact position, ESE  $\frac{1}{2}$  from Long Hook

Distance from ship 12 miles

Depth, 12  $\frac{1}{2}$  fathoms

Nature of bottom, soft sand black specks

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 75 therm. No.,

" of surface water, 71  $\frac{1}{2}$ 

" at depth of fathoms,

" at bottom, 65

Density at surface, 1.023 temp., 71  $\frac{1}{2}$ 

" at depth of fathoms,

" at bottom,

Number of salinometer, 70.52

Barometer reading, 30.02

State of sky, cloudy

Direction of wind, SSW; force, 4

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S.A.T.

Name and rank of commanding officer, Robt. M. Scott

Lieut. De Fr. Comdg.

Name and position of observer, C. H. Chapman  
Master Mariner

NOTES RELATING TO STATION NO. 1885

Obtained about a bushel of material - Consisting of one great clam shell, yellow sponge, 1 orange hake, 3 crabs - 2 skates a few star fish, sand dollars, hermit crabs, a few oyster stones, 1 small hake about 8 inches in length, a few pipe fish and dead mussel shells, also for shrimps

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1886

Date, Aug 18<sup>th</sup> 1894

Time of day, 2.50 PM of tide,

Locality, Chilca Banks

Exact position, 65° E of from Sandy Hook

At ship's distance 12 miles

Depth, 14 fathoms

Nature of bottom, Gr. Sand &amp; gravel

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 75 therm. No.,

" of surface water, 71 1/2 "

" at depth of fathoms, "

" at bottom, 67 "

Density at surface, 1.023.0 temp., 71 1/2

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 70.52,

Barometer reading, 30.02

State of sky, Cloudy

Direction of wind, SSW ; force, 4

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S.F.C.

Name and rank of commanding officer, Robt. Platt

Lieut. C. W. Condy

Name and position of observer, O. H. Gossard  
Master's Mates

NOTES RELATING TO STATION NO. 1886 -

Obtained about 3 1/4 bushels  
of material consisting of  
Star fish, sand dollars  
dead clam shells, 1 flounder  
about 1 ft in length - several  
hermit & spider crabs

## RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. 1887

Date, Aug 18<sup>th</sup> 1894

Time of day, 3:35 PM of tide, High

Locality, Cholera Bank

Exact position, ESE  $\frac{1}{8}$  from Sandy Hook

Chart distance 12 miles

Depth, 13  $\frac{1}{2}$  fathoms

Nature of bottom, rocky ground

Dredging instrument used, 7 ft Beam Tread

Direction of drift, ; distance,

Temperature of air, 75 therm. No.,

" of surface water, 71

" at depth of fathoms,

" at bottom, 66  $\frac{1}{2}$ 

Density at surface, 1.025, temp., 71

" at depth of fathoms,

" at bottom,

Number of salinometer, 70.52

Barometer reading, 30.02

State of sky, cloudy

Direction of wind, SSW ; force, 4

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, H. F. C.

Name and rank of commanding officer, Robt. Place

Lieut. Engg. Comdg.

Name and position of observer, A. H. Cleveland

Mete. Engg.

NOTES RELATING TO STATION NO. 1887

Obtained about 2 bushels of  
Material consisting of 3 rocks  
weighing about 50 lbs each  
Trawl over took a considerable  
quantity of star fish were  
caught - 2 Cunners, 1 small  
Flounder - 1 Hake about 6 inches  
in length - 2 green Hermit crabs  
and dead Clam shells

RECORD OF DREDGING,  
TEMPERATURE AND DENSITY.

Station No. 1888

Date, Aug 28<sup>th</sup> 1894

Time of day, 11 A.M.; of tide, Ebb

Locality, Long Island Sound

Exact position, Plum Island to Lya Phillips 55° 55'

Lya Phillips & Company's Ship 34° 48'

Depth, 17½ fathoms

Nature of bottom, Gr. Sand & rubble

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 69 therm. No.,

" of surface water, 70

" at depth of fathoms, "

" at bottom, 69½ "

Density at surface, 1022 temp., 70

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 70.52

Barometer reading, 30.11

State of sky, Clear

Direction of wind, N S W ; force, 8

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S. Fish Commission

Name and rank of commanding officer, Prof. J. C. Merriam

Lieut. Eng.

Name and position of observer, C. H. Cleveland  
Math. Eng.

NOTES RELATING TO STATION NO. 1888

Obtained about 1/2 basket of material consisting of yellow lump sponge Kelp - Coral and a few small crabs, one of the best types of Travel was broken.

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1889  
 Date, Aug 28<sup>th</sup> 1894  
 Time of day, 11.25 AM of tide, 6 ft  
 Locality, Long Island Sound  
 Exact position, Long Beach Bar & Plumbed 79°00'  
 Plum Island at Lynde Pt. Lat 96°34' N  
 Depth, 17 fms  
 Nature of bottom, Gg & Pebbles  
 Dredging instrument used, dredge  
 Direction of drift, ; distance,  
 Temperature of air, 69 therm. No.,  
 " of surface water, 70  
 " at depth of fathoms.  
 " at bottom,  
 Density at surface, 1022.0 temp., 70  
 " at depth of fathoms,  
 " at bottom,  
 Number of salinometer, 7052  
 Barometer reading, 30.11  
 State of sky, Clear  
 Direction of wind, N S W ; force, 3  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force.  
 Name of vessel, Fish Hawk  
 Service to which attached, U.S.A.C  
 Name and rank of commanding officer, Robt. P. Lee  
 Name and position of observer, C. H. Cleaveland  
 M. D. M. F.

NOTES RELATING TO STATION NO. 1887

Obtained about  $1\frac{1}{2}$  bushels of material  
consisting of shell - small crabs  
and small - Shells eggs  
Pebbles - some broken - coral

## RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. 1890

Date, Aug 23<sup>rd</sup> 1894

Time of day, 11.40 AM; of tide, ebb

Locality, Long Island Sound

Exact position, Long Beach Bar &amp; Pt. Plum Island Ledge Lat 41° 17' 00"

Plum Island Ledge Pt. Lat 41° 17' 00"

Depth, 18 fathoms

Nature of bottom, gravelly shell

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air 74 therm. No.,

of surface water, 70

at depth of fathoms,

" at bottom, 69 1/2

Density at surface, 1022 temp., 70

" at depth of fathoms,

" at bottom,

Number of salinometer, 70.62

Barometer reading, 30.11-

State of sky, Clear

Direction of wind, N W SW ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U. S. Comm.

Name and rank of commanding officer, R. H. Page

Lieut. J. G. Page

Name and position of observer, C. A. Cleveland  
Master Carpenter

99-14 R

33-15 E

NOTES RELATING TO STATION NO. 1890

Floored above - peck of mixture  
consisting of yellow string sponges  
a few skates & flounders - Kelp  
/ young scalp - spider crabs  
a few young sea robins.

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1891

Date, Aug 23<sup>rd</sup> 1894

Time of day, 12 Noon ; of tide, Ebb

Locality, Long Island Sound

Exact position, Long Beach Bar &amp; Pt. Pleasant Isl. Lat. 41° 77' 00"

Long Isla Lt Baynde Pt. Lat. 41° 77' 47"

Depth, 18 fathoms

Nature of bottom, sand &amp; shells

Dredging instrument used, Fish Hawk

Direction of drift, ; distance,

Temperature of air, 74 therm. No.,

" of surface water, 70

" at depth of fathoms,

" at bottom, 69

Density at surface, 1.0220 temp., 70

" at depth of fathoms,

" at bottom.

Number of salinometer, 25

Barometer reading, 30.11

State of sky, Clear

Direction of wind, WSW ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S.A.C.

Name and rank of commanding officer, Robt. Plant

Lieut. U.S.N.

Name and position of observer,

C. H. Cleveland  
Mete. Asst.

NOTES RELATING TO STATION NO. 1891

Obtained about  $\frac{1}{2}$  basket of material consisting of yellow sponge, a few small sponges, small star fish, Dead mussel shells, Spider Crab, young Skulp, Butter fish, Skirt Eggs, Humit Cabs.

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1892

Date, Aug 23 1894

Time of day, 12.20 PM; of tide, Flood

Locality, Long Isla Sound

Exact position, Long Isla, South of Plum Is. 76° 21'

Plumb Dr. at Hyp. Pt. 86.102° 02'

Depth, 19 1/2 fathoms

Nature of bottom, Gr. Sand &amp; Shells

Dredging instrument used, 7 ft. Beam Trawl

Direction of drift, ; distance,

Temperature of air, 75 therm. No.,

" of surface water, 70

" at depth of fathoms,

" at bottom, 69 1/2

Density at surface, 1022.6 temp., 70

" at depth of fathoms,

" at bottom,

Number of salinometer, 7052

Barometer reading, 30.11

State of sky. Clear

Direction of wind, N. SW; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U. S. C. S.

Name and rank of commanding officer, Capt. G. W.

Brown

Name and position of observer, Off Cleveland  
Ohio, 23rd

NOTES RELATING TO STATION NO. 1892

Obtained about  $\frac{1}{2}$  basket of material, consisting of small square Spinifex corals, yellow finger sponge. Gravel was taken and some of material lost.

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1893

Date, Aug 23<sup>rd</sup> 1894

Time of day, 1.35 PM; of tide, Flood

Locality, Long Island Sound

Exact position, Plum Island N. W. end Lat 41° 56'  
Long 71° 54' 56"  
From New London to Saybrook Lt 78° 15'

Depth, 38 fathoms

Nature of bottom, gr sand &amp; rock specks

Dredging instrument used, dredge

Direction of drift, ; distance,

Temperature of air, 80 therm. No.,

" of surface water, 69

" at depth of fathoms,

" at bottom, 70

Density at surface, 1022 temp., 69

" at depth of fathoms,

" at bottom,

Number of salinometer, 70.52

Barometer reading, 30.11

State of sky, clear

Direction of wind, NW; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S.A.C.

Name and rank of commanding officer, Robt. P. Lee

Lt. M. J. M.

Name and position of observer, C. H. Cleasby

Mata ujn

NOTES RELATING TO STATION NO. 1873  
obtained about a bushel of  
sand and gravel a few  
sand dollars received

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1894

Date, Aug 23<sup>rd</sup> 1894

Time of day, 1.50 PM; of tide, Flood

Locality, Long Isla Sound

Exact position, Plum Gut River 6° 30' 42" N  
Plum Isla 6° 30' 42" N

Depth, 53 fathoms

Nature of bottom, Mts or clay

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, West; distance, about 2 miles

Temperature of air, 78 therm. No.,

" of surface water, 69

" at depth of fathoms,

" at bottom, 67

Density at surface, 1022.0 temp., 69

" at depth of fathoms,

" at bottom,

Number of salinometer, 7052

Barometer reading, 3010

State of sky, Clear

Direction of wind, West; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Bush Hawk

Service to which attached, U.S.A.C. Roff Platt

Name and rank of commanding officer,

Lieut. C. F. M.

Name and position of observer, C. H. Cleveland

Mats Wm

NOTES RELATING TO STATION NO. 1894

Obtained about one basket of  
material consisting of seabeans  
Skates. Fishes. Molluscs.  
Sea Robins. Monkfish. Squid.

RECORD OF DREDGING,  
TEMPERATURE AND DENSITY.

Station No. 1895

Date, Aug 23<sup>rd</sup> 1894

Time of day, 2,30 PM; of tide, Flood

Locality, Long Island Sound

Exact position, Plum Island Ledge at 48° 20'

New London to Saybrook at 74,55°

Depth, 22 fathoms

Nature of bottom, gr sand & rubble

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 78 therm. No.,

" of surface water, 69 "

" at depth of fathoms, "

" at bottom, 70 "

Density at surface, 1022.0 temp., 69

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7052

Barometer reading, 30.10

State of sky, Clear

Direction of wind, West; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, "Frigid Hawk"

Service to which attached, U.S. Commission

Name and rank of commanding officer, C. H. Davis

Lieut U.S.A.

Name and position of observer, C. N. Cleveland

Mat. Off.

NOTES RELATING TO STATION NO. 1895

Obtained about  $\frac{1}{2}$  bucket of material consisting of Crabs  
Conchus - Minkles - Flounders  
Skates - Shells - Sand dollars  
Hermit Crabs

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1896

Date, Aug 23<sup>rd</sup> 1894

Time of day, 3 PM ; of tide, High

Locality, Long Island Sound

Exact position, Plum Island Quar 20° 26'

Lure Quar &amp; Lynne Pt 109° 35'

Depth, 19 fathoms

Nature of bottom, Gr Sand &amp; Blk specks

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 79 therm. No..

" of surface water, 69

" at depth of fathoms, ..

" at bottom, 69

Density at surface, 1022 temp., 69

" at depth of fathoms, ..

" at bottom, ..

Number of salinometer, 7052

Barometer reading, 3010

State of sky, Clear

Direction of wind, West ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S. Commission

Name and rank of commanding officer, Robt Platt

Lieut. Jr. Gr.

Name and position of observer, C. H. Cleasby  
M. A. S. F.

NOTES RELATING TO STATION NO. 1896

Obtained about  $\frac{1}{2}$  basket of  
material consisting of broken  
shells - Dead shells - crabs

## RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. 1897

Date, Aug 20<sup>th</sup> 1894

Time of day, 3.15 PM; of tide, flood

Locality, Long Island Sound

Exact position, Gardner &amp; Plum 23° 43'

Plum I &amp; Lynde Pt 108° 03'

Depth, 19 fathoms and 4 ft

Nature of bottom, hard

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 79 therm. No.,

" of surface water, 69

" 69

" at depth of fathoms,

"

" at bottom, 79

"

Density at surface, 1022 temp., 69

" at depth of fathoms,

"

" at bottom,

"

Number of salinometer, 7052

Barometer reading, 30.10

State of sky, Clear

Direction of wind, West ; force, 4

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, "High Hawk"

Service to which attached, U.S.A.C.

Name and rank of commanding officer, Robt Platt

Dr. Wm.

Name and position of observer, Off Clearwater  
Mata U.S.N.

P. 22. 1894

NOTES RELATING TO STATION NO. 1897

Obtained about  $\frac{1}{2}$  bushel of material consisting of small Flounders - Squid Eggs - Dead shells - yellow sting sponge Trawl got caught, supposed Rock

## RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. 1898

Date, Aug 23<sup>rd</sup> 1894

Time of day, 3.30 PM; of tide, flood

Locality, Long Island Sound

Exact position, Gardiners &amp; Plum Is 23° 00'

Plum Island to Lynde Pt 109° 25'

Depth, 19 fathoms

Nature of bottom, hard

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 79 therm. No.,

" of surface water, 69 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1022 temp., 69

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7052

Barometer reading, 3010

State of sky, Clear

Direction of wind, W ; force, 4

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S.F.C.

Name and rank of commanding officer, Robt. P. Huntington

Lt U.S.N.

Name and position of observer, C.H. Cleveland

Moto U.S.N.

NOTES RELATING TO STATION NO. 1898

Obtained about  $\frac{1}{2}$  bushel of  
material consisting of Skates  
crabs Dead Shells - yellow  
String sponge Hermit crabs